INDEX TO VOLUME XXI

JANUARY TO DECEMBER, 1916

A Lone / Amer		ranger to the spill Disciple of the say	
Accident in Boston Tunnel	8090	Barometric Low Record 79	902
Accidents and Popular Beliefs		Bell Telephone Costs	
Acetylene Gas Corrosive		Belt Tighteners	103
" Lamp Consumption		" " Humidity and 8	
Aerial Post Service	8191	Belting, Notes on 80	
Aeroplane Carries Supplies to Mine		Beyer Barometric Condenser	081
" Industry, Growth of		Big Little David, a 79	944
Afternoon Inefficiencies		Bigger than the Railroads 75	992
Air Balanced Hoisting Engine	8205	Black Damp 8	152
" Blasts in Mines	8108	Blackboard Cleaner 80	094
" Compressors, Contractors' Portable	8168	Blacksmith Shop in Alaska Mine 80	053
" Cools Open Hearth Furnaces	8062	Blasted Mosquitoes 8	120
" Determines Fineness of Cement	7850	Blasting for Clams	
" Friction Speedometer		" a Ditch	999
" Gun for the Movies		" with Liquid Air	996
" Hammer Helps out		" " Oxygen 8	198
" in Compression and Expansion	7932		906
" Instead of Water in Dry Consentrat-			902
ing	8031		030
" Lenses for Diver's Spectacles	8039		092
" Lift for Ground Water	7850		093
" " Hastens Leaching	7958		962
" at Old Dominion Mine			966
at Old Dollillion Wille			960
in Cyamue Flant		Boiler Explosions in Germany	
rower Cost of	0110	Bontempi Rust-Proofing 7	913
Pumping, High Duty		Brasher Breakwater	080
Quebec Bridge		Brazil, Rapid Tunnel Drive in 8	040
Raising On by	8013	" Statistics	935
Successiul Siliali	8012	Breaking Boulders by Block-Holing 8	122
Suggestions	7985		965
" Mains Convey Water for Fires		Bullet, Noise of	922
" Operated Shovels in Tunnels		Business of Mining 8	
" Pressure for Auto Tires	7862	Burning Powdered Coal 8	144
" Sprinkling Car	8179	Bypass on Catskill Aqueduct 78	843
" Propellers for Boats	8180	the state of the s	
" Siphon for Gas Retorts	8077	C and the miles of the man	
" Shocks that Kill	8156		
" Supersedes Steam Calliope		Capacities of Extra Heavy Pipe 7	998
" Tight Brass Castings	8175	Carbide Plant in Norway 8	031
Alaska, Enlarging a Tunnel in		Carelessness Kills 79	988
Alloy Steels	7963	Catskill Aqueduct Bypass	843
Altitudes, Power Losses at	7988	Cement, Air Determines Fineness of 7	850
Aluminum in Explosives		" Gun in Coal Mines 8	213
" Powdered		" " Mining Work 8	107
Amateur Electricians		" for Waterproofing Dam 8	125
Ambitions Little Lady		" " Work, Cost of	
American Port Accommodations		Chains, Nomenclature of	066
Anaconda, Biggest Copper Producer	8222	Chance for Somebody	216
" Recovery	7903	Change of Gas Standard 8	021
Artificial Ice in Canada	8074	Cheapest Blower 8	024
		Charge Dita	024
" " St. Paul, Minn	8222	Chinaman Puna Daill Sharanan	1000
Asphyxiating Horses	8046	Chinaman Runs Drill Sharpener	998
Atmospheric Humidity "Pressure, Health and Com-	8046	Cleaning Fires by Compressed Air	999
rressure, rieaith and Com-	7050	Coal Burned by Railroads	148
fort	9112	" Burning Powdered	144
" Problem in Deep Mines		"Cutters in Canadian Mines 8	1085
Automobile Plants, Magnitude of	1992	Dust Explosion, Naval	174
Aviation Apprenticeship	8193	" Miners in British Army 8	1093
HILLIE OF	ALZI	Powdered Phelimatic System 0	175

" Thin Seams, Punchers in 8163	Drill Steels, Shanking 8133
" What there is in	" Tempering Process 8092
	Dell Collaboration of the coll
Combination Shot, the	Drills for Cracked Rock 8110
Compressed Air and the Railroads 7897	" Tempering 7934
" at Inspiration Mine 8181	Drilling Contest
" " at Darbland Late 9025	ii to The Latt Mr.
at Rockland Lake 8033	" at Treadwell Mines 7976
" for Concreting 8055	Drying Air for Sand Blast 8186
" " Sinking a Shaft 8048	" Films for the Movies 7944
II II II Fine Whitele 7004	
rire whistle	Dust Explosion 8094
" in Construction and Re-	" Preventing 8120
7002	" to Prevent Explosions 8015
	" Vacuum Conveyance of 2014
Compressed Air in Mattress Manufacture. 7882	vacuum Conveyance of 8014
Compressed Air Equalizing at Copper	" Sand, Wind 8214
Queen	End of the second of the secon
Compressed Air Lining a Tunnel 7847	Est relative for the section of
" Pulls by Pushing 7978	EAST TOTAL CONTINUE DATE OF THE PARTY OF THE
" Pulls by Pushing 7978 " Safety of in Mining 7858 " Saves Shoes 8022	Earthquake Kills Miners
Safety of in Wilning 1838	Earthquake Kills Miners 8092
" Saves Shoes 8022	Economies in Office and Mine
" Solves a Water Problem. 8060	Economy in High Class Equipment 7979
Carrier Date 1 1001cm. 6000	Edinary in riigh Class Equipment 7979
Compressed Air Throws Bombs 8158	Edison Wireless Telegraphy 7849
" to Save a Park 7929	Efficiencies of Compressors and Blowers 7952
" Tunnel Ventilation 7860	Electric Air Drill for Blacksmith's Ham-
C Tru	
Compressor, a Hilarity 8013	mer 8050
Compressors Down in the Mine	Electric Air Drill Stamp Mill 7921
" High Speed for Mines 7907	" " Unatara in Hamitala 0005
righ Speed for Mines 1901	" Heaters in Hospitals 8095
Concrete Conveying, Pneumatic 7982	" Cooking of Snakes 8159
Concrete Mixer and Pneumatic Conveyor. 8111	" Fans in Winter 8031
Concrete Surfaces, Roughening 8197	warm Air blower
Concreting Twin Peaks Tunnel 8189	Elephant Butte Dam 8094
Condenser, Beyer Barometric 8081	Engineer, The
Condensel, Deyer Darometric	Engineer, The
Continuous Gas Light 8190	Engineering Explosives 8072
Contractors' Portable Compressors 8168	Enlarging a Tunnel in Alaska 8039
Cooling Tower, Largest 8191	
Cooling Tower, Largest	Explosives in Engineering 7889
" Water for Compressors 8185	Extra Daylight 8073
Cooperation of Engineers with Government 7945	Eye Protector Contract
Conner for Shells 7970	Light Frotector Contract
Copper for Shells	The state of the s
" High Vacuum8022, 8126	F
" Queen, Compressed Air at 7885	
Control Compressed the att	Factory Periscope
Cost of Crosscut Adit 8059	ractory Periscope
Costs of Mine Haulage, Horses and Air 8116	Falling Pressure Safety Valve 8017
Cow, Food Productivity of	Fans Keep Frost from Windows 7881
Cracking of the Hydrocarbons 7994	Fire Fighting in Metal Mines 8187
Current from Sweden to Denmark 7965	" Resisting Materials Sought 8125
Curtain of Air Jets 8055	" Whistles, Compressed Air for 7984
	Whisties, Compressed Am 101 1904
Cutting off Piles 8157	First Aid in Gas Poisoning 8154
	Fish Car 8152
n	Flags, Pull in Wind
D	riags, I ull in Willu
	Flotation Parodox 7901
Dam, Largest in Europe 8222	Flying Between France and England 8222
	Machines, Men Employed 7966
Danger in Copper Carbide Lamp 8024	P. Di L. C. O'l P.
Dangerous Mine Gases 8076	Foam Blankets for Oil Fires 8156
Deep Hole Drill Wagon 8003	Ford Auto Record 8031
Delay Cartridges	Forest Products
Desiccation, Industrial 8084	Foundation Job, A Typical New York 8103
Discharge Valve Trouble 7863	Freezing of Air Pipes
Distillate, Produced in Utah 8222	Fresh Air for Submarines
Distinate, Floduced in Otah 8222	
Ditcher and Grader, Railroad 7922	Frozen Steel, Thawing 7990
Diver, Narrow Escape of 8084	Future of Aviation
Diving Hood	
Diving Hood	and alta Landston
Don't Use Compressed Air 8164	G
Door Operating Pneumatic Engine 8080	
Down Strait Tunnel	Gage, Inspection, for Hand Drills 8052
Dover Strait Tunnel	Gage, Inspection, for Hand Drills 8052
Drill Shanks and Bits 7946	Gas from Street Manholes 8221
" Steel and its Treatment 7916	" Holders, Novel Construction 7960
" " Uandling 7960	" Lighting First in Reltimore 8004
nanding 1808	Lighting, Flist in Daitinoic 0074
Resting	" Main Joint Welding 8069
" " Shanking 8133	" Our Dependence Upon
" Sharpening 9051	Well Greatest Producer 7935
	Well, Orcatest I foducer
" " at Old Dominion 8018	Gases from Explosives 8158
at old Bollamon boto	
	Level in the conjust of the Planton concerne
	A contract of the contract of
Sales Court Sales College Coll	Company of the second of the s

Gassed in the Trenches		Lifting Ground Water by Air	7850
Gasoline Cautions		Limestone Quarry, Deep	
Gasoline Engines, Aggregate Power of		Lining a Tunnel by Compressed Air	
Fires, to Extinguish		Liquid Air, a Company to Manufacture	8093
III 1713	8191	" Blasting with 7864, 7916,	7996
Lucumutives Dau for Mille An	7978	" Explosives	8027
Outlit for Alichor Doit Holes		Oxygen, Blasting with	8198
Safety in Soldering		Little Tugger Hoist	8177
Lanks, Liouveling		Livingstone Channel, Dry Excavation	
vapor in An		Long Distance Advertising	
Give the Compressor a Chance		Lung Motors	1809
Glass Blackboards		M. of the second state of	
Gold in Gallipoli Trenches	8091	Made	
		Machine Mined Coal	9222
Grain Conveyor, Pneumatic		Marble Quarrying, Technology of	
Greatest Pipe Line	7040	Mattress Manufacture	
" Tunnel in the World		Mechanical Kinship	
Grouting to Stop Water Flow	7903	Medicine Droppers to Spit on the Hands	
Gun, Short Working Life of	8061	Metal Mining in Bolivia	7876
" Velocities	8062	Metals, War Scatters	7888
V CIOCILLO,	0002	Metallic Air Connections in Austria.	8031
H		Metric System Free to All	8217
	-	" in India Visionary	8126
Hammer Drill Mine Records	8123	" Progress	
Hammers, Steam or Air		Mexican Mining Journal	
Handbook of Casinghead Gas		Mine Explosion, Marvel, Ala	
" Rock Excavation	8218	" Gases, Dangerous	
Hand Drills in Structural, Work	8009	" Haulage Costs, Horses and Air	8116
Handy Diving Helmets	8177	" Sprinkling Car	
Hard Hats for Safety	7869	" Timber Treatment	
Hay Fever Cure		" Ventilation	
Heart Action at Great Altitudes		Mines, Atmospheric Problem in	
Heating Value of Gas		Miners Phthisis not New	8080
Hendonhall, Refloating of		Miniature Air Motors	7902
High Pressure Gas Feeding	7986	Mining, Business of	8105
" Turbo Compressor		" Code, New One Wanted	7870
" Speed Compressors for Mines	7007	" Engineers in the Was	7001
" Speed Compressors for Mines		Engineers in the war	
Highest Habitation in the World	8157	Moisture in Fog	8157
Highest Habitation in the World Hilarity Compressor	8157 8013	Moisture in Fog	8157 7939
Highest Habitation in the World Hilarity Compressor	8157 8013 7913	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted.	8157 7939 8120
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic Portable in Quarrying	8157 8013 7913 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America.	8157 7939 8120 8093
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced	8157 8013 7913 8102 8205	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick.	8157 7939 8120 8093 8094
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken	8157 8013 7913 8102 8205 8131	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic. " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump.	8157 8013 7913 8102 8205 8131 8157	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies	8157 8013 7913 8102 8205 8131 8157 8153	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric	8157 8013 7913 8102 8205 8131 8157 8153 8046	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies	8157 8013 7913 8102 8205 8131 8157 8153 8046	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness.	8157 8013 7913 8102 8205 8131 8157 8153 8046	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help.	8157 7939 8120 8093 8094 8057
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric	8157 8013 7913 8102 8205 8131 8157 8153 8046	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S.	8157 7939 8120 8093 8094 8057 7999 7897 8222
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness 7964	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. " " Consumption. " " Pipe Line.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8202 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption" "Pipe Line New Year Optimism.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness 7964	8157 8013 7913 8102 8202 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted Motor Cars in America. Mule has Right to Kick. Multiple Effects of Improvements N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption "Pipe Line New Year Optimism Nitrogen, Growing Appreciation of	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8202 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted Motor Cars in America Mule has Right to Kick Multiple Effects of Improvements. N Nails Climb out of Wetted Wood Nation's Engineers to Help Natural Bridges in U. S. Gas Compressors "Consumption "Pipe Line New Year Optimism Nitrogen, Growing Appreciation of Noise of a Bullet	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 8108
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8202 8205 8131 8157 8153 8046 8102	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted Motor Cars in America Mule has Right to Kick Multiple Effects of Improvements. N Nails Climb out of Wetted Wood Nation's Engineers to Help Natural Bridges in U. S. Gas Compressors "Consumption "Pipe Line New Year Optimism Nitrogen, Growing Appreciation of Noise of a Bullet	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 8108
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 7922 8202 8099
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness Inspiration Mine, Compressed Air at J Jackhamers at Pozo Mine	8157 8013 7913 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption "Pipe Line New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet Norway, Shaft Sinking in. Notes on Belting "Notowl" for Drying Face and Hands	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 8108 7922 8202 8099 8045
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting.	8157 7939 8193 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 7865 8108 7922 8202 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness. 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at J Jackhamers at Pozo Mine.	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 8192 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. ' Gas Compressors. " " Consumption. " " Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 7922 8202 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. " " Consumption. " "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 8108 7922 8202 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption" "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 7865 8108 7922 8202 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. " " Consumption. " "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. " Firing Explosions.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 87922 8202 8099 8045 8190
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic. " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies. Humidity, Atmospheric. " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption" "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. "Firing Explosions. "Fuel Stored Under Water.	8157 7939 8129 8093 8094 8057 7999 7897 8222 7931 8191 7965 8108 7922 8202 8099 8045 8199 8026 8062 7966
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors "Consumption" "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. "Firing Explosions. "Fuel Stored Under Water. "Supplied at Sea.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 7865 8108 7922 8202 8099 8045 8190 8119 8026 8066 7902
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness. I Iodine Dangerous with Mercury Chloride Industrial Preparedness. 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at J Jackhamers at Pozo Mine Joking with Compressed Air Joliet Water Problem L Laboratory Wind Tunnel La Brea Fossil Beds Lake Titicaca Lamp for Signals Lead Mine Given Away	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 7870 8060 7880 8074 7969 8074 7999	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. ' Gas Compressors. " Consumption. " Pipe Line New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. " Firing Explosions. " Fuel Stored Under Water. " Supplied at Sea. " Output of the World.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 7865 8108 7922 8202 8099 8045 8190 8119 8026 8062 7962 8158
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness . 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at J Jackhamers at Pozo Mine Joking with Compressed Air Joliet Water Problem L Laboratory Wind Tunnel La Brea Fossil Beds Lake Titicaca Lamp for Signals Lead Mine Given Away Legal Status of Gas Compressors	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. "Firing Explosions. "Fuel Stored Under Water. "Supplied at Sea. "Output of the World. "Wells, Air to Help.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 7865 8108 8192 8099 8045 8190 8119 8026 8062 7966 7902 8158 7902
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060 7880 8074 7965 8061 7995 8223 8117	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. "Firing Explosions. "Fuel Stored Under Water. "Supplied at Sea. "Output of the World. "Wells, Air to Help. Oldest U. S. Bureau.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 8108 7922 8202 8045 8199 8045 8199 8045 8199 8062 7966 7966 7968 7968 7968 8068
Highest Habitation in the World Hilarity Compressor Hoists, Pneumatic " Portable in Quarrying Hoisting Engine Air Balanced How the Windows were Broken Human Air Pump Humanizing the Societies Humidity, Atmospheric " and Belt Tightness I Iodine Dangerous with Mercury Chloride Industrial Preparedness . 7964, Inspection Gage for Hand Drills Inspiration Mine, Compressed Air at J Jackhamers at Pozo Mine Joking with Compressed Air Joliet Water Problem L Laboratory Wind Tunnel La Brea Fossil Beds Lake Titicaca Lamp for Signals Lead Mine Given Away Legal Status of Gas Compressors	8157 8013 7913 8102 8205 8131 8157 8153 8046 8102 7999 8073 8052 8181 8022 7870 8060 7880 8074 7965 8061 7995 8223 8117	Moisture in Fog. Morningside Park Pump. Mosquitoes, Blasted. Motor Cars in America Mule has Right to Kick. Multiple Effects of Improvements. N Nails Climb out of Wetted Wood. Nation's Engineers to Help. Natural Bridges in U. S. Gas Compressors. "Consumption. "Pipe Line. New Year Optimism. Nitrogen, Growing Appreciation of. Noise of a Bullet. Norway, Shaft Sinking in. Notes on Belting. "Notowl" for Drying Face and Hands. Nova Scotia Steel and Iron Co. O Odd Job for a Jackhamer. Oil in Air Hose. "Firing Explosions. "Fuel Stored Under Water. "Supplied at Sea. "Output of the World. "Wells, Air to Help.	8157 7939 8120 8093 8094 8057 7999 7897 8222 7931 8191 7965 8108 7922 8202 8045 8199 8045 8199 8045 8199 8062 7966 7966 7968 7968 7968 8068

Operating Costs of Railroad Compressors. 8207	Deflecting of the Handlenhall 7075
	Refloating of the Hendlonhall 7875
Osmium, Heaviest of the Metals 8031	Refrigerating Systems 8172
Oxy-Acetylene Cuts up Boilers 7930	Rescue Apparatus Independent of Altitude 7869
Oxygen and Nitrogen Company 8091	Rescuer Loses Life 8222
"Torch Cuts Armor Plate 8157	Resting Drill Steel
Ozone in War Surgery	Rights of Weighers and Measurers 7994
Ozone in war surgery	
	Rock Drilling by Contract
P, sould see I ad it.	" Twelve Years Progress 8082
	" Dusting to Prevent Explosions 8015
Panama Canal, Lighting the 8008	Roosevelt Tunnel Record 8176
Patents-7871, 7903, 7935, 7967, 8000, 8032,	Rotary Replacing Reciprocating 7966
8062, 8095, 8127, 8159, 8191, 8223	Roughening Concrete Surfaces 8197
Pennsylvania Steam Power 7947	Rubber for Tires 7965
Permutit 8094	
Perpetual Motion, Compressed Air for 8174	S
Phonographic Weighing Machines 8150	
Photographs, for Better Tunnel 7921	Safety First Slogan
Pipe Rifling Suggestion 8120	" Valve for Falling Pressure 8017
Piping for High Pressure Gas 8029	Saline Matter in Ocean 7864
Pneumatic Augers for Submarine Boring. 8148	Sand Blast in the Foundry 8136
" Blacksmith's Hammer 7898	" " for Lettering 8117
Concrete Conveying	Reneating the Air
Concreting Saves Space 8119	Diasting Data
" Grain Conveyors 8067	" " Forgings 8087
" Hoists 7913	" " Glove 8083
" Incident, a 8008	
Lattle Grinder 0221	a water rank 6155
Mail Tube Legislation 0120	Sappers and Miners, The 8184
" Massage 8017	Saving with Cheap Coal
Press for Railroads 8115	" Old Tracing Cloth 8158
	Sawdust for Gasoline Fires 8126
Tamping Reduces Gangs 8165	
Thes, rust Manuacturers off4	Screw Pipe Joints 7898
100is, Care 01 1919	Seeing Stars in Daylight 8126
" In Automobile Work 7878	Self Pumping Wells 8125
" Transfer of Liquids 7860	Shaft Sinking in Granite 8158
Pneumatics for Measuring Hides 7902	" " Norway 8202
	" " Methods Three 8010
" to Teach Phonetics 8198	Methods, Three 8019
Post Hammer	Shanking Drill Steels
Powdered Coal, Pneumatic Burners 8175	Sharpening Drill Steels
Power Distribution in Blowing Engines 7991	Steels at Old Dominio 8018
" Losses at Great Altitudes 7988	
	Shipping Ports of U. S 8093
Hom voicame Heat	Shop Signals 8092
Preparedness, Industrial 8073	Sick Drill 8152
" for Peace or War 8025	Signal Code for Field Engineers 8189
Pressure in Peanut Oil Extraction 8197	Silver Exports from Mexico 8031
	" in the Moving Pictures
Preventing Freezing of Air Brake Pipes 7900	in the moving rictures 1900
Professor Sweet, Death of 8026	River instead of Corner Stone 7903
Progress	Skin Eruption from Handling Cement 7967
Projectiles, Air Resistance to 8095	Small Air Lift, a Successful 8112
Pulling by Pushing 7978	" Drill for a Small Tunnel 7950
Pulmotor Improvement	Soap Bubble Lives Five Weeks 7992
Day Water and Day Water 0150	
Pump Works under Deep Water 8158	Socks of German Soldiers
Pumping Problem, Morningside Park 7939	Sooy Smith, William, Death of 7961
Punches for Thin Cold Seams 8163	Speedometer, Air Friction 8021
Pure Iron, New Method for	Spring Banding Press
Purifying Mercury 7949	Stainless Steel
Dutting the Clock Peek 9054	Stamp Mill, Electric Air Drill 7921
Putting the Clock Back 8054	Stamp win, Electric All Dilli
Mark Control of the C	Steam or Air Hammers? 8199
Sink a second an Quant will be took	for Melting Soft Metal 8182
and the second s	Turbine, Long Run 7870
Ouack Electricians 8127	Steam Power, New Book 8154
Ouarries War Destroys	Structural Work, Hand Drills in 8009
Output of Edge of Occas	
Quarrying at Edge of Ocean 8023	Subway Excavation Revolutionized 7971
" Practice, Ancient and Modern . 7951	" Stations, Papers and Dirt 8093
Quebec Bridge Air Lift 7926	Suggestion, Value of a 8058
10 min 10	Sulphur Mines, Largest Power Plant 8216
R	Super Zepelin Data 8222
100 part of the same	
	T T
Railroad Ditcher and Grader 7922	
" Ties for Kindling Wood 8182	Control of the speed of the Lemb Festive of the
Rats in the Trenches 8157	Tamping, Pneumatic Reduces Gangs 8165
Record, a Patent Office 8093	" Trench Filling 8045

Tarpaulin	8164		
Telescope Tells of Air Currents		V	
Temperature Limits in Mines	7925		
" of Ocean Depths	7930	Vacuum Cleaner to Gather Pollen	7965
Tempering Mine Drills	7934	" Conveyor of Fine Dust	8014
Tests of Rock Drills	8030	" Pump, Home Made	7987
Thawing Frozen Steel	7990	" New Type	7956
Three Shaft Sinking Methods	8019	" Transportation of Dust	7962
Tie Tamper, Rapid Spread of	7997	Variety of National Products	7870
Tin from Bolivia	8190	Ventilating Tunnels	8122
To Tunnel Under a Town	8093	Ventilation, Mine	8077
Too Much Funny Business	7869	Volcanic Heat, Power from	
Treadwell Mines, Drilling at	7976		
Tungsten Lamp Gas Pressure	8020		
Tunnel Drive in Brazil	8040	W	
" Greatest in the World	8079	The state of the s	
" in Hawaii	7902	Wages in Steel Industry	8031
" Record in Burmah	8093	War Consumption of Metals	7848
" " the Courts	7925	Washing out Water Jackets	
" " Subaqueous8056,		Water Highway and Gliding Boat	8056
" Rogers Pass	8092	" Power and National Defence	8058
Tunnels, Ventilating	8122	Waterproofing with Cement Gun	8125
Tunneling Heroes of the War	8170	"Wave" Power for Rock Drills	8079
" Machine Demonstration	8218	Weighers and Measurers, Rights of	7994
Turbo Blower, New	7996		
" Compressor, High Pressure	8209		
" Compressors and Blowers	7928	Wet Flour	
Turkish Irrigation Project	8220		
Twelve Years Progress in Rock Drilling		Where Wages Haven't Gone Up	
Twenty-four Hour Day.	7965	Wind Cave	
Twin Peaks Tunnel, Concreting	8189		
Two Things Less than each Other			
Typical M V Foundation Joh	8103	World's Largest Oil Well	
Typical N. Y. Foundation Job	9103	Wrecking Gas Pumping Stations	1930